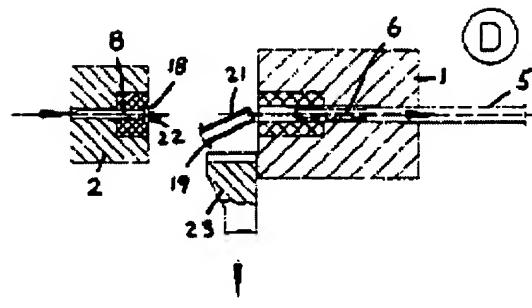
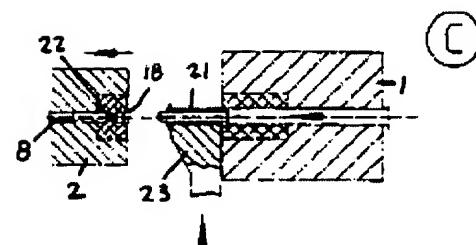
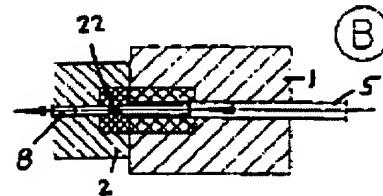
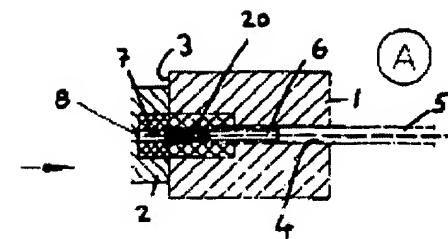


Production of hollow rivets from wire - has tool which forms rivet bore and rivet head in one operation, using mandrel arrangement**Publication number:** DE4122158**Publication date:** 1993-01-07**Inventor:** AUSLAENDER WOLFGANG (DE); RENGERS KLAUS (DE)**Applicant:** HILGELAND GMBH & CO GEB (DE)**Classification:****- International:** B21J9/04; B21J9/06; B21K1/60; B21J9/00; B21K1/00;
(IPC1-7): B21J9/06; B21K1/60**- european:** B21J9/04; B21J9/06; B21K1/60**Application number:** DE19914122158 19910704**Priority number(s):** DE19914122158 19910704**Also published as:**

BR9202593 (A)

Report a data error here**Abstract of DE4122158**

A hollow rivet is produced from a short length of wire which is inserted into a die (1) and held in place by a ram (2). The die has a through hole (4) and a mandrel (5) is inserted into the die from the side opposite to the punch. The mandrel has an end region (6) which has a diameter corresponding to the required bore of the rivet. The mandrel is pressed into the wire to form a tube and a shoulder on the mandrel presses the tube into a recess formed in the end face of the ram so that the rivet head is formed by an upsetting operation. The rivet is removed from the die by a tool (23). USE/ADVANTAGE - Method of producing hollow rivets without wasting material.



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